FLD 287

CLASSIFICATION SECRET
SECURITY INFORMATION

CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

REPORT NO.

CD NO. 25X1A

COUNTRY East Germany

DATE DISTR 18 August 1953

SUBJECT Single Sideband Transmitter Constructed at Funkwerk Koepenick

NO. OF PAGES

PLACE ACQUIRED 25X1A

NO. OF ENCLS. (LISTED BELOW)

DATE OF INFO.

SUPPLEMENT TO REPORT NO. 25X1A

THIS IS UNEVALUATED INFORMATION

SOURCE 25X1X

The 50 kW single side-band transmitter now in development at Funkwerk Koepenick is intended to be used for the East Asi service of East Germany. The designator under which it will be carried is "commercial traffic." This, however, is a general cover designation, as it is known that the transmitter will also be used for diplomatic and eventually for military traffic. The transmitter will operate with two channels in the following ways:

a. One broadcasting band per channel, or

b. Two telephone bands per radio band; that is, a total of four telephone bands, or

c. Five to ten telegraph lines instead of each telephone band; that is a total of 20 to 40 telegraph bands.

2. After its completion the transmitter will be placed in the vicinity of Berlin, probably near Beelitz.1/ The exact location has not yet been determined. It is fairly certain that the instrument will be placed within a 30-kilometer radius from Berlin, because otherwise amplifying installations would also have to be developed; there is no such development. Development of the transmitter has suffered delays. The date for completion of development has now been set for the end of March 1953.2/ If this date cannot be met, construction of the instrument will not be completed before the end of 1953.

3. The degree of carrier suppression is five percent. 3/ Carrier suppression is variable; it can be made to assume all values between 5 and 100 percent. There has been talk to the effect that the transmitter is to be provided with equipment for the inversion of its side-bands or of parts of its side-bands. Such equipment, however, is not under development at Funkwerk Koepenick. If the equipment for the inversion of the side-bands is actually to be developed, this would be done at the **Fernmeldetechnisches** Zentralamt of the East German postal service at Mauerstrasse in Berlin.

25X1A

CLASSIFICATION SECRET

STATE		NAVY	X	NSRB		DISTRIBUTION			
ARMY	X	AIR	X	FBI		OSI Fr X	ORR Fr X		

25X1A

4. No single side-band suppressed carrier transmitter other than the one [illegible] with here is under development. No order for the development of another transmitter of this kind has been issued to Funkwerk Koepenick. 4/

5. [illegible] be arranged as a single side-band transmitter or also, through change of mode of modulation, its two side-bands can be put into operation. In the latter case, it is used for broadcasting; the broadcasts are received with regular receiver sets. Since no plans exist for putting relay stations into operation, broadcasts from the transmitter would cover only a limited distance. For the operation of the transmitter as a single side-band transmitter, a special receiver set is under development in Department T.K of Funkwerk Koepenick, headed by Wilhelm Grimm. This special receiver set is similar to the combination receiving set now being developed in Grimm's department. 5/ The receiver set for the single side-band transmissions will be provided with special equipment which will make it possible to separate the individual radio, telephone and telegraph lines and to connect the listener with the right party.

6. The carrier wave length of the transmitter is 12 to 200 meters. It is not yet known and probably not yet determined on which individual wave length the transmitter is to be operated. Probably there will be several operation wave lengths, depended upon daytime operations, dusk operations, night-time operations, and also dependent upon the season and climatic factors. 6/

25X1A
25X1A

1. [redacted] Comment: [redacted]

25X1A 2. [redacted] Comment: The same source previously reported that development was scheduled to be completed by the beginning of July 1953, with construction of the transmitter beginning immediately thereafter and continuing for approximately three months. [redacted]

25X1A
25X1A 25X1A

3. [redacted] Comment: [redacted] it was erroneously reported that the degree of carrier suppression is three percent.

25X1A

4. [redacted] Comment: Funkwerk Koepenick is the only place in East Germany which is able to develop this transmitter.

25X1A

5. [redacted] ment: Details on the combination receiving set are contained in [redacted].

25X1A 6. [redacted] Comment: [redacted], another channel reported the development of a 150 kw single sideband transmitter. This is believed to be erroneous, that the 50 kw transmitter was meant. So far as is known, only the 50 kw single sideband transmitter is under development or has been ordered. 25X1A